

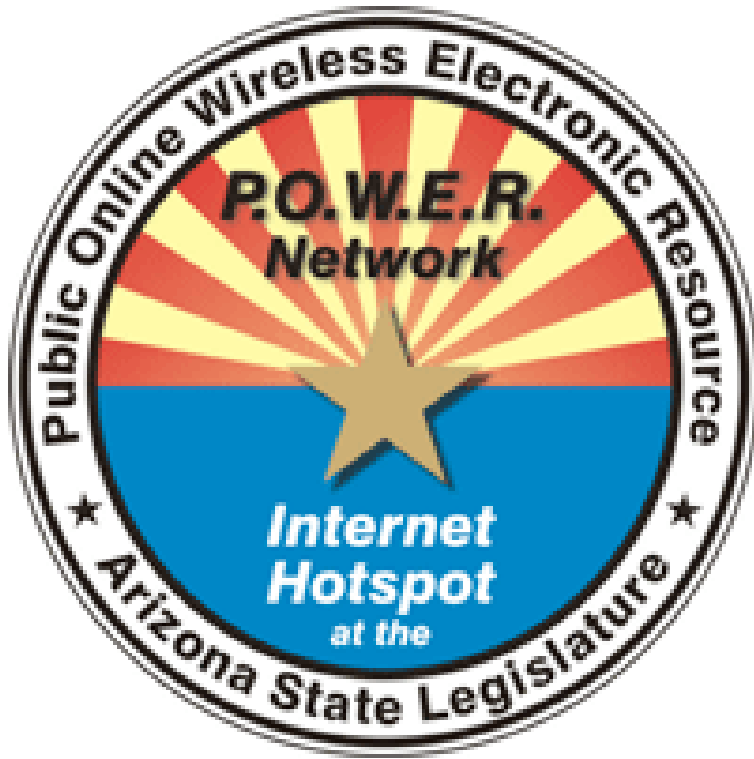
AZ POWER

unWiring the Arizona
Legislature

Fowler Brown

**((hotZona
Networks))**

Agenda

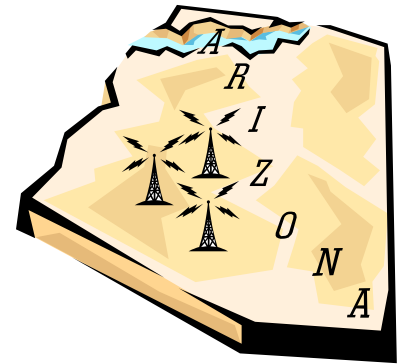


- AZ POWER Vision
- Overview
- Technical Overview
- Rules of Thumb
- Costs
- Success Criteria
- Lessons Learned



AZ POWER Vision

To enable public high speed Wi-Fi access at the
Legislature



- No more waiting in lines to speak!
- Email your Senator or Representative
- Fast, Quick, Easy, SECURE



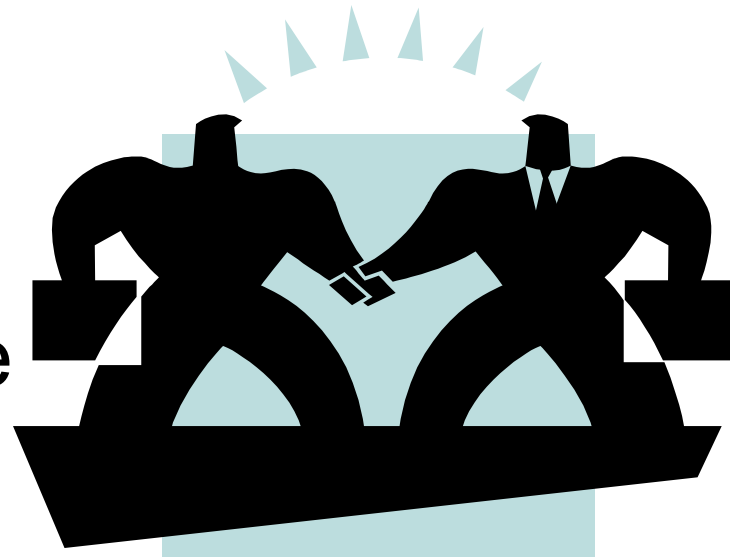
AZ POWER Overview

- The Arizona POWER Wi-Fi network is one of the largest free hotspots in Arizona
- The hotzone covers virtually all the common areas in the House and Senate buildings (even the outside mall area!)
- In production since start of 2004

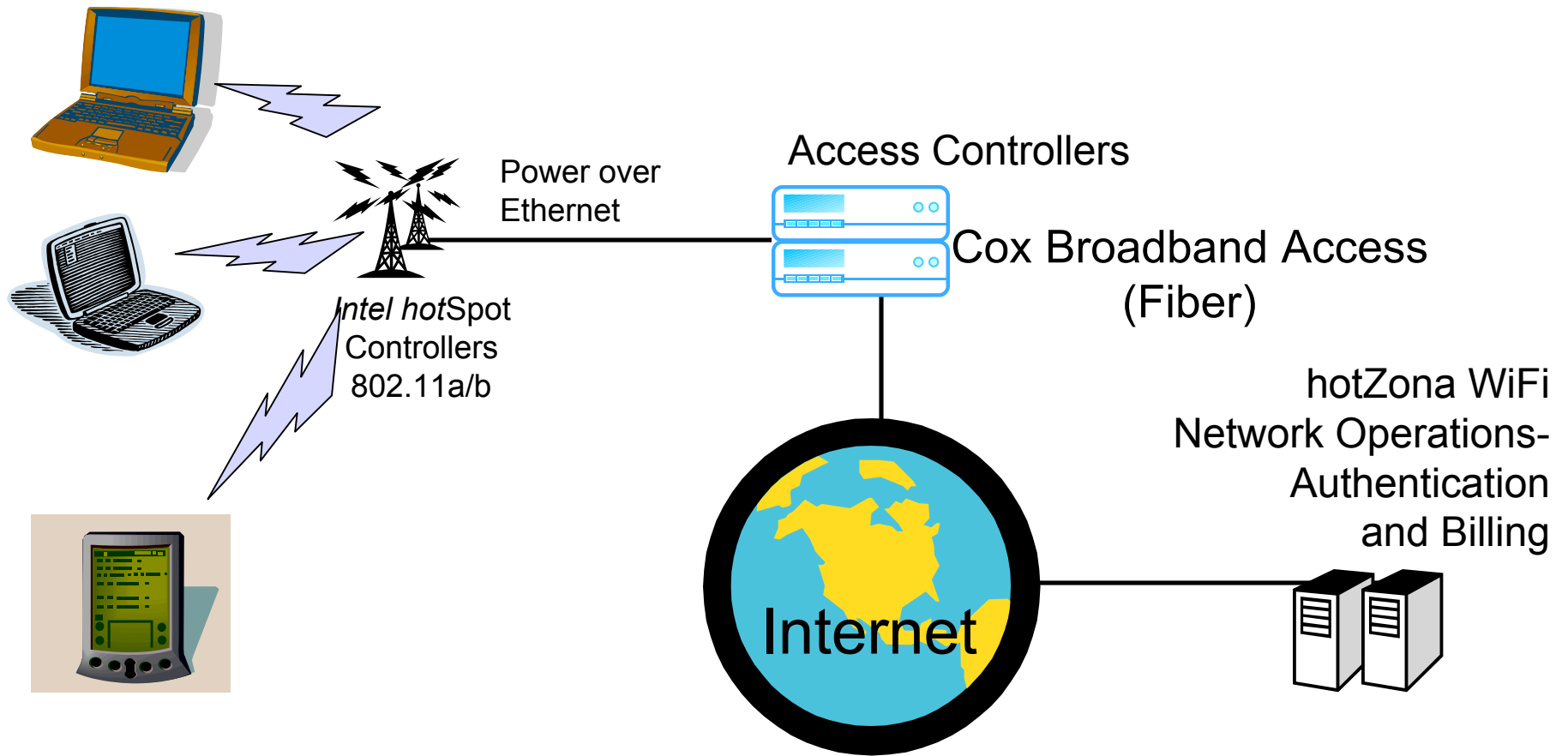


AZ POWER Overview Continued

- Executive Sponsors
 - Senator Dean Martin
 - Representative Robert Robson
- Partnership with Private Industry
 - Cox Business Services
 - Intel Corporation
 - hotZona Wi-Fi

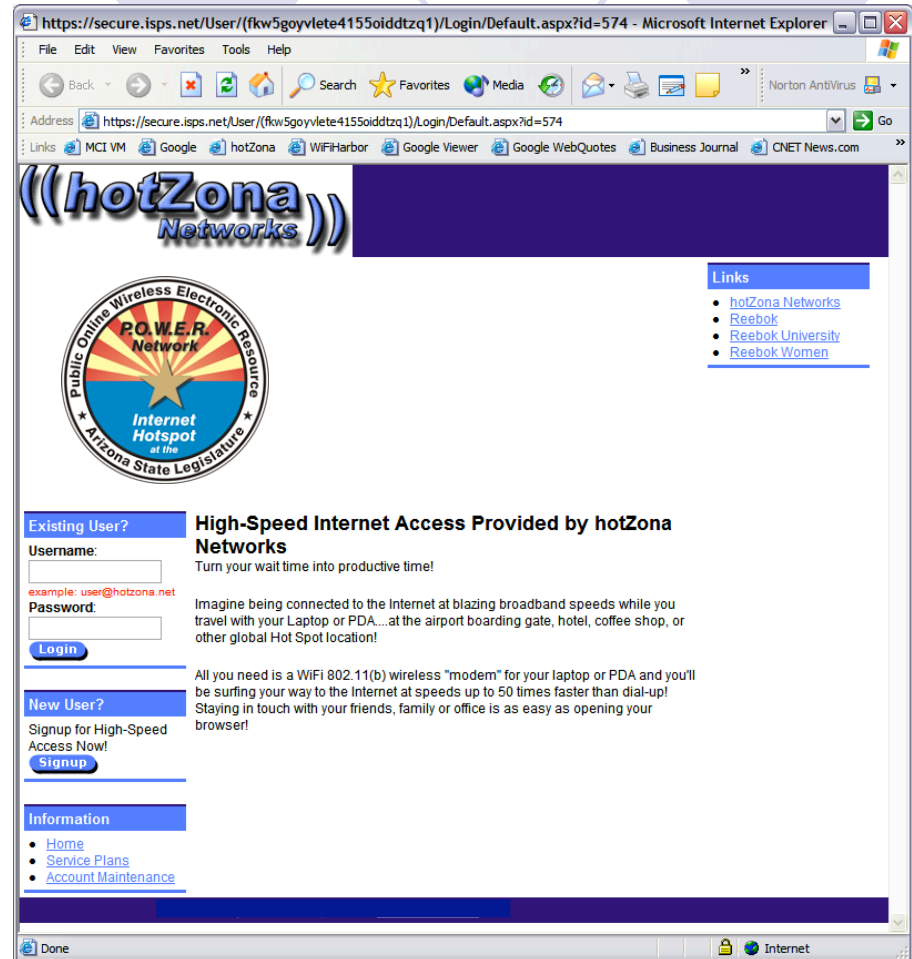


Technical Overview - Network



How do I get online wirelessly?

- Microsoft XP and Apple OS X automatically find wireless access
- Start up your browser and login!
- Customized for AZ Legislature
(Easy and Fast!)



AZ POWER Features

- End User Policies
- Security
 - VPN enabled
 - Completely separate network (vlan support)
- User Friendly
 - Welcome Email to every user (support contact info)
 - Email friendly (SMTP)
- Captive Portal
- Remote Management
 - SNMP MIBs
- Radius AAA Authentication
- User validation by credit card enabled
- Wired support enabled



Rules of Thumb

- 20-50K per user (email / web surfing)
- 200k per user (downloading video)
- 15-20 active users per Wi-Fi access point
- 300 foot coverage per access point (clear)
 - Less depending on structure and number of users



Costs, Care and Feeding

- Costs

- All costs were absorbed by Cox Communications, Intel corporation, and hotZona WiFi

- Care and Feeding of AZPower

- hotZona WiFi manages the network 24/7
 - End to end monitoring
 - End user support is provided on a best effort basis



Success Criteria

- Minimal impact on AZ Legislature staff
- Hundreds of users from all over USA, but primarily Arizona
- Over a 1200 hours of usage since February 15
- Average time online is 1 hour 33 minutes
- Zero outages!



Lessons Learned



- Never enough Access Points!
- VPNs usage is important, but difficult for many users.
- Users are removed after 30 days of non-use.
- Don't forget signage or "cheat sheets" for users.



Questions?

Thank You!

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